

United States Patent [19]

Green et al.

Patent Number: [11]

5,333,256

Date of Patent: [45]

Jul. 26, 1994

[54] METHODS OF MONITORING THE STATUS OF AN APPLICATION PROGRAM

[75] Inventors: Emily A. Green; Jerry W. Malcolm; Ha H. Nguyen; Cynthia A. Roosken,

all of Austin, Tex.

International Business Machines [73] Assignee:

Corporation, Armonk, N.Y.

[21] Appl. No.: 865,788

Apr. 7, 1992 [22] Filed:

Related U.S. Application Data

Continuation of Ser. No. 683,127, Apr. 9, 1991, aban-[63] doned, which is a continuation of Ser. No. 352,800, May 15, 1989, abandoned.

Int. Cl.⁵ G06F 15/62

395/155-161, 650

[56] References Cited

U.S. PATENT DOCUMENTS

4.829,468 5/1989 Nonaka et al. 364/900 4,858,152 8/1989 Estes 364/521 X

OTHER PUBLICATIONS

"A Graphical Language for Concurrent Programming", by Man-Chi Pong, 1986 IEEE Computer Society Workshop on Visual Languages, pp. 26-33.

Manual for Macintosh II, Finder Reference, from Apple Computer, Inc., Cupertino, Calif. pp. 171-183, 1986.

Microsoft Windows User's Guide, Microsoft Corp. 1987, pp. 31-44, 64-78 and 105.

Computer, vol. 19, No. 9, Sep. 1986, pp. 57-67, New York, US; B. A. Myers: "A Complete and Efficient Implementation of Covered Windows", p. 58, right-hand column, line 25; p. 59, right-hand column, line 35. BYTE, vol. 7, No. 4, Apr. 1982, pp. 242-282, St. Peterborough, US; D. C. Smith et al.: "Designing the Star User Interface", p. 254, right-hand column, lines 24-44; p. 256, left-hand column, line 1, middle column, line 5; FIG. 1.

Patent Abstract of Japan, vol. 11, No. 256 (P-607) [2703], Aug. 20, 1987; & JP-A-62 063 333 (NEC Corp.) Mar. 20, 1987, whole document.

Research Disclosure, Sep. 1988, p. 662, disclosure No. 29334, "Graphic Indicator for Mail Status and Type". Research Disclosure, Feb. 1989, p. 99, disclosure No. 29824, "Dynamic Icon Content", whole document.

Primary Examiner-Heather R. Herndon Attorney, Agent, or Firm-H. St. Julian; Douglas H.

[57] ABSTRACT

An application or terminal emulation program, which is being executed on an information processing system, is represented by the display of a first icon on a display device. If during the execution of the application or terminal emulation program, a virtual display buffer associated with the application program, is updated, a second icon is displayed on the display device to indicate to a user of the system that a change in the status of the program has occurred.

6 Claims, 8 Drawing Sheets

